

THE ZOOLOGICAL SOCIETY OF LONDON.

THIS Society was founded in 1826 by Sir STAMFORD RAFFLES, Mr. J. SABINE, Mr. N. A. VIGORS, and other eminent Naturalists, for the advancement of Zoology and Animal Physiology, and for the introduction of new and curious subjects of the Animal Kingdom, and was incorporated by Royal Charter in 1829.

Patron.

HIS MAJESTY THE KING.

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The Society consists of Fellows, and Honorary, Foreign, and Corresponding Members, elected according to the By-Laws. It carries out the objects of its foundation by means of the collection of living animals, by its Library, and by its Scientific Publications.

The Office of the Society, Regent's Park, N.W., where all communications should be sent, addressed to "The Secretary," is open from Ten till Five, except on Saturdays, when it closes at Two p.m.

The Library, under the superintendence of Mr. F. H. Waterhouse, is open daily at the above hours, except in September.

The Meetings of the Society for General Business are held in the Meeting Room at the Society's Office on the third Wednesday in every month of the year, except in September and October, at half-past Four o'clock p.m.

The Meetings for Scientific Business are held in the Meeting Room at the Society's Office fortnightly on Tuesdays, except in July, August, September, and December and January, at half-past Eight o'clock p.m.

The Anniversary Meeting is held on the 29th. of April, or the nearest convenient day, at Four p.m.

The Society's Gardens are open daily from Nine o'clock until Sunset. Mr. R. I. Pocock, F.R.S., F.L.S., is the resident Superintendent and Curator of Mammals, Mr. D. Seth-Smith is Curator of Birds and Inspector of Works, and Mr. E. G. Boulenger is Curator of Reptiles. The Prosectorium for Anatomical and Pathological work is under the charge of Mr. Frank E. Beddard, M.A., F.R.S., Prosector, assisted by Mr. H. G. Plimmer, F.R.S., M.R.C.S., Pathologist to the Society.

TERMS FOR THE ADMISSION OF FELLOWS.

FELLOWS pay an Admission Fee of £5, and an Annual Contribution of £3, due on the 1st. of January, and payable in advance, or a Composition of £45 in lieu thereof; the whole payment, including the Admission Fee, being £50.

No person can become a FELLOW until the Admission Fee and first Annual Subscription have been paid, or the annual payments have been compounded for.

FELLOWS elected in November and December are not liable for the Subscription for the current year.

PRIVILEGES OF FELLOWS.

FELLOWS have Personal Admission to the Gardens upon signing their names in the book at the entrance gate, and may introduce Two Companions daily.

The WIFE or HUSBAND of a FELLOW can exercise these privileges in the absence of the Fellow.

Every FELLOW is entitled to receive annually 60 undated Green Cards, and, when no specific instructions are received, the supply will be sent in this form. If preferred, however, 20 Green Cards may be exchanged for a book containing 2 Orders for each Saturday* throughout the year. A similar book of Sunday Orders may also be obtained in lieu of 20 Green Cards. A Green Card may also be exchanged for 2 Buff Cards for the use of Children under 12 years of age.

It is particularly requested that Fellows *will sign every Ticket* before it goes out of their possession. Unsigned Tickets are not available.

Green and Buff Tickets may be used on any day and in any year, but in no case can two Children be admitted with one Adult's Ticket, or an Adult be admitted with two Children's Tickets.

The annual supply of Tickets will be sent to each FELLOW on the 1st. of January in every year, upon filling up and returning the form of Standing Order supplied to Fellows.

FELLOWS are not allowed to pass in friends on their written order or on presentation of their visiting cards.

FELLOWS are exempt from payment of the fee for Painting, Sketching, and Photographing in the Society's Gardens.

FELLOWS have the privilege of receiving the Society's ordinary Publications issued during the year upon payment of the additional Subscription of One Guinea. This Subscription is due upon the 1st. of January, and must be paid before the day of the Anniversary Meeting, after which the privilege lapses. FELLOWS are likewise entitled to purchase these Publications at 25 per cent. less than the price charged to the public. A further reduction of 25 per cent. is also made upon all purchases of Publications issued prior to 1881, if above the value of Five Pounds.

FELLOWS also have the privilege of subscribing to the Annual Volume of 'The Zoological Record,' which gives a list of the Works and Publications relating to Zoology in each year, for the sum of

* The Saturday Orders are not available if the Fellow introduces friends personally on that day.

One Pound Ten Shillings. Separate divisions of volumes 39 to 42 can also be supplied. Full particulars of these publications can be had on application to the Secretary.

FELLOWS may obtain a TRANSFERABLE IVORY TICKET admitting two persons, available throughout the whole period of Fellowship, on payment of Ten Pounds in one sum. A second similar ticket may be obtained on payment of a further sum of Twenty Pounds.

Any FELLOW who intends to be absent from the United Kingdom during the space of at least one year, may, upon giving to the Secretary notice in *writing*, have his or her name placed upon the "dormant list," and will then be called upon to pay an annual subscription of £1 only during such absence, but after three years must make a further application to be retained on that list.

Any FELLOW, having paid all fees due to the Society, is at liberty to withdraw his or her name upon giving notice in *writing* to the Secretary.

Ladies or Gentlemen wishing to become Fellows of the Society are requested to communicate with the undersigned.

P. CHALMERS MITCHELL,

Secretary.

Regent's Park, London, N.W.,
December, 1911.

MEETINGS
OF THE
ZOOLOGICAL SOCIETY OF LONDON
FOR
SCIENTIFIC BUSINESS.

1912.

<p>TUESDAY, FEBRUARY .. 6 & 20</p> <p> " MARCH 5 & 19</p> <p> " APRIL 2 & 23</p> <p> " MAY 7 & 21</p>		<p>TUESDAY, JUNE..... 4</p> <p> " OCTOBER .. 29</p> <p> " NOVEMBER .. 12 & 26</p>
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*The Chair will be taken at half-past Eight o'clock in the Evening
precisely.*

ZOOLOGICAL SOCIETY OF LONDON.

LIST OF PUBLICATIONS.

THE scientific publications of the Zoological Society of London are of two kinds—"Proceedings," published in an octavo form, and "Transactions," in quarto.

According to the present arrangements, the "Proceedings" contain not only notices of all business transacted at the scientific meetings, but also all the papers read at such meetings and recommended to be published in the "Proceedings" by the Committee of Publication. A large number of coloured plates and engravings are issued in the volumes of the "Proceedings," to illustrate the new or otherwise remarkable species of animals described therein. Amongst such illustrations, figures of the new or rare species acquired in a living state for the Society's Gardens are often given.

The "Proceedings" for each year are issued in four parts, paged consecutively, in the months of March, June, September, and December. From January 1901 they have been issued as two half-yearly volumes, indexed separately.

An "Abstract of the Proceedings" is published by the Society on the Tuesday following the date of Meeting to which it refers. It is issued along with the "Proceedings," free of extra charge, to all Fellows who subscribe to the Publications, but it may be obtained on the day of publication at the price of Sixpence, or, if desired, sent post free for the sum of Six Shillings per annum, payable in advance.

The "Transactions" contain such of the communications made to the scientific meetings of the Society as, on account of the nature of the plates required to illustrate them, are better adapted for publication in the quarto form. They are issued at irregular intervals.

Fellows and Corresponding Members, upon payment of a Subscription of One Guinea *before* the day of the Anniversary Meeting in each year, are entitled to receive the Society's Publications for the year. They are likewise entitled to purchase the Publications of the Society at 25 per cent. less than the price charged for them to the Public. A further reduction of 25 per cent. is made upon purchases of Publications issued prior to 1881, if they exceed the value of five pounds.

Fellows also have the privilege of subscribing to the Annual Volume of the Zoological Record for a sum of 30s. (which includes cost of delivery), payable on the 1st. of July in each year; but this privilege is forfeited unless the subscription be paid *before* the 1st. of December following.

The following is a complete list of the publications of the Society already issued.

TRANSACTIONS* OF THE ZOOLOGICAL SOCIETY OF LONDON.

4to. 19 vols. and Index.

Vol.				Price to Fellows.		Price to the Public.
Vol. I.,	containing 59 Plates....	(1833-35)	....	£3 13 6	....	£4 18 0†
" II.,	" 71 "	(1835-41)	....	4 0 0	....	5 6 6†
" III.,	" 63 "	(1842-49)	....	3 8 3	....	4 11 0†
" IV.,	" 77 "	(1851-62)	....	6 2 0	....	8 2 6†
" V.,	" 67 "	(1862-66)	....	5 4 3	....	6 19 0
" VI.,	" 92 "	(1866-69)	....	11 5 0	....	15 0 0
" VII.,	" 73 "	(1869-72)	....	10 4 0	....	13 12 0
" VIII.,	" 82 "	(1872-74)	....	9 8 3	....	12 11 0
" IX.,	" 99 "	(1875-77)	....	12 1 6	....	16 2 0
" X.,	" 95 "	(1877-79)	....	10 0 3	....	13 7 0
Index, Vols. I.-X.	.....	(1833-79)	....	0 7 6	....	0 10 0
Vol. XI.,	containing 97 Plates..	(1880-85)	....	9 12 0	....	12 16 0
" XII.,	" 65 " ..	(1886-90)	....	5 8 0	....	7 4 0
" XIII.,	" 62 " ..	(1891-95)	....	6 8 3	....	8 11 0
" XIV.,	" 47 " ..	(1896-98)	....	5 5 0	....	7 0 0
" XV.,	" 52 " ..	(1898-1901)	..	5 15 6	....	7 14 0
" XVI.,	" 38 " ..	(1901-1903)	..	5 8 0	....	7 4 0
" XVII.,	" 41 " ..	(1903-1906)	..	5 18 6	....	7 18 0
" XVIII.,	" 43 " ..	(1907-1911)	..	4 1 0	....	5 8 0
" XIX.,	" 24 " ..	(1909-1910)	..	10 4 0	....	13 12 0

PROCEEDINGS OF THE COMMITTEE OF SCIENCE AND CORRESPONDENCE OF THE ZOOLOGICAL SOCIETY OF LONDON. 8vo. 2 vols. (Letterpress only).

Part	Year	Price to Fellows.	Price to the Public.
Part I.	1830-31. 1 vol. 8vo.	4s. 6d.	6s.†
" II.	1832. "	4s. 6d.	6s.

PROCEEDINGS OF THE ZOOLOGICAL SOCIETY OF LONDON. 8vo. 15 vols. (Letterpress only) and Index. (First Series.)

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" III.	1835. "	4s. 6d.	6s.	" XI.	1843. "	4s. 6d.	6s.†
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" V.	1837. "	4s. 6d.	6s.	" XIII.	1845. "	4s. 6d.	6s.
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" VII.	1839. "	4s. 6d.	6s.†	" XV.	1847. "	4s. 6d.	6s.†
" VIII.	1840. "	4s. 6d.	6s.†	Index	1830-1847.	4s. 6d.	6s.

8vo. 13 vols. and Index. (Second Series.)

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" XIX.	1851. "	4s. 6d.	6s.	0 15 9	1 1 0†
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" XXI.	1853. "	4s. 6d.	6s.	0 18 0	1 4 0†
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" XXIII.	1855. "	4s. 6d.	6s.	1 8 6	1 18 0†
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" XXVII.	1859. "	4s. 6d.	6s.	1 11 6	2 2 0†
" XXVIII.	1860. "	4s. 6d.	6s.	1 11 6	2 2 0†
Index	1848-1860.	4s. 6d.	6s.		

† Out of print.

* In consequence of a re-arrangement of the stock of the 'Transactions,' the Society is now able to offer for sale, at the reduced price of £30, sets of Vols. v.-xvi. inclusive, and separate papers, of which a list can be supplied, at about one-fourth their published price.

PROCEEDINGS OF THE SCIENTIFIC MEETINGS OF THE
 ZOOLOGICAL SOCIETY OF LONDON. 8vo. 40 vols. and 4 Indices.

	Letterpress only.		With Plates uncoloured.		With Plates coloured.	
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† Out of print.

PROCEEDINGS OF THE GENERAL MEETINGS FOR SCIENTIFIC
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1901, vol. I.....	18s.	24s.
" " II.....	18s.	24s.
1902, " I.....	18s.	24s.
" " II.....	18s.	24s.
1903, " I.....	18s.	24s.
" " II.....	18s.	24s.
1904, " I.....	18s.	24s.
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" " II.....	18s.	24s.
1911, " I.....	18s.	24s.
" " II.....	18s.	24s.

LISTS OF THE ANIMALS IN THE SOCIETY'S GARDENS.

List of the Vertebrated Animals now or lately Living in the Gardens of the Zoological Society of London. (Eighth Edition.) 8vo. 1883. Cloth, 4s. 6d.

List of the Vertebrated Animals now or lately Living in the Gardens of the Zoological Society of London. (Ninth Edition.) 8vo. 1896. Cloth, 6s.

Catalogue of the Library of the Zoological Society of London (Fifth Edition.) 8vo. 1902. Cloth, 6s.

THE OFFICIAL ILLUSTRATED GARDEN GUIDE—9th Edition
—with (1) a Railway and Street Map, showing a direct route to the "Zoo" from all parts of London and the Suburbs; (2) a Plan of the Grounds, showing at a glance the location of the animals; (3) a short description of some of the principal animals in the Collection (now containing over 3000 specimens), together with 50 Photographic Illustrations and Index. Price 6d. in Stiff Paper Cover, postage 1½d., or in Green Cloth Cover price 1s. 2d. post free.

P. CHALMERS MITCHELL,

Secretary.

Regent's Park, London, N.W.,
December, 1911.

These publications may be obtained at the SOCIETY'S OFFICE, at Messrs. LONGMANS' (Paternoster Row, E.C.), or through any bookseller.

ZOOLOGICAL SOCIETY OF LONDON.

THE ZOOLOGICAL RECORD.

THE object of the ZOOLOGICAL RECORD is to give, by means of an annual Volume, complete lists of the Works and Publications relating to Zoology in all its branches that have appeared during the year preceding the issue of the Volume, together with full information as to the points they deal with, arranged in such a manner as to serve as an Index to the literature of Zoology in all parts of the globe, and thus to form a repertory that will retain its value for the Student in future years.

The 'Zoological Record' having been amalgamated with the International Catalogue of Scientific Literature, Zoology, Volumes from 43 onwards can now be obtained only from Messrs. Harrison & Sons, except when purchasing complete sets from the Zoological Society.

Under the scheme of amalgamation, Fellows of the Society, and Institutions already on the subscription-list, have the privilege of subscribing at the old rate of 30s. per annum, which covers the cost of carriage of the volume. The subscription becomes due on July 1st. in each year, and lapses if not paid by the 1st. of December following.

The Society is able to supply complete sets of the Record on the following terms:—

Vols. 1 to 37, price £14 10s. net.
Vols. 38 to 42 at 10s. each net.
Vol. 43 and onwards at 40s. each.

The prices for *separate* volumes are as follows:—

Vols. 1 to 42 (except Vols. 4 and 6) 10s. each net.
The price of the 'Zoological Record,' Vol. 43 and subsequent volumes, published now by Messrs. Harrison and Co., is 40s. each.

INDEX ZOOLOGICUS. An alphabetical list of names of genera and subgenera proposed for use in Zoology, as recorded in the 'Zoological Record,' 1880-1900; together with other names not included in the 'Nomenclator Zoologicus' of S. H. Scudder. Compiled (for the Zoological Society of London) by CHARLES OWEN WATERHOUSE and edited by DAVID SHARP, Editor of the 'Zoological Record.' London, 1902. Price to Fellows, 18s.; price to the public, 20s., or if sold with a set, 10s.

Divisions of the 'Zoological Record' of Vols. 39 to 42 can be supplied by the Society, but *after* Vol. 42 they can be had only of Messrs. Harrison & Sons, 46 St. Martin's Lane, W.C.

SEPARATE DIVISIONS OF THE ZOOLOGICAL RECORD.

Divisions of the 'Zoological Record,' Vols. 39-42, containing the literature of the years 1902-1905, may be obtained separately as follows:—

	<i>s.</i>	<i>d.</i>	
List of abbreviations of journals, etc.	2	0	net.
Special Records, viz. :—			
I. General Subjects	2	6	,,
II. Mammalia	2	6	,,
III. Aves	6	0	,,
IV. Reptilia and Batrachia	2	6	,,
V. Pisces	2	6	,,
VI. Tunicata	1	0	,,
VII. Mollusca	4	0	,,
VIII. Brachiopoda	1	0	,,
IX. Bryozoa	1	0	,,
X. Crustacea	2	6	,,
XI. Arachnida	2	0	,,
XII. Myriopoda	1	6	,,
XIII. Insecta	12	0	,,
XIV. Echinoderma	3	6	,,
XV. Vermes	3	0	,,
XVI. Cœlenterata	1	6	,,
XVII. Spongiæ	2	0	,,
XVIII. Protozoa	2	0	,,
Index of new names of genera and subgenera	2	0	,,

Divisions from Vol. 43 onwards are now supplied by Messrs. Harrison & Sons, 46 St. Martin's Lane, London, W.C.

P. CHALMERS MITCHELL,

Secretary.

REGENT'S PARK, LONDON, N.W.

December, 1911.

EXHIBITIONS AND NOTICES.

May 23, 1911.

Dr. A. SMITH WOODWARD, F.R.S., Vice-President,
in the Chair.

THE SECRETARY read the following report on the additions made to the Society's Menagerie during the month of April, 1911:—

The number of registered additions to the Society's Menagerie during the month of April last was 274. Of these 75 were acquired by presentation, 147 by purchase, 34 were received on deposit, 5 in exchange, and 13 were born in the Gardens.

The number of departures during the same period, by deaths and removals, was 169.

Amongst the additions special attention may be directed to:—

1 Black Serval (*Felis serval*), from Nairobi, presented by the Marchioness of Donegal to H.M. THE KING'S African Collection, on April 25th.

2 Bactrian Camels (*Camelus bactrianus*), from Central Asia, and 1 Yak (*Poëphagus grunniens*), from Tibet, presented on April 4th and 29th respectively, by H.G. The Duke of Bedford, K.G., President of the Society.

1 Klipspringer (*Oreotragus saltator*), from Somaliland, presented by R. E. Drake-Brockman, Esq., M.R.C.S., F.Z.S., to H.M. THE KING'S African Collection, on April 28th.

1 Savannah Deer (*Dorcélephus savannarum*), from Iquique, Chile, presented on April 24th by Miss Peggy Lomax.

1 Black-tailed Oribi (*Ourebia nigricaudata*), from the Ivory Coast, presented by F. W. F. Jackson, Esq., to H.M. THE KING'S African Collection, on April 4th.

2 Australian Bee-eaters (*Merops ornatus*), from New South Wales, new to the Collection, purchased on April 30th.

2 Woodhouse's Jays (*Aphelocoma woodhousei*), from North America, and 3 Pigmy Ground-Doves (*Chamœpelia minuta*), from South America, new to the Collection, received in exchange on April 1st.

2 Sharpe's Wood-Owls (*Syrnium nuchale*), 1 Fraser's Eagle-Owl (*Bubo poënsis*), 1 Beautiful Wood-Hawk (*Dryotriorchis spectabilis*), and 1 One-streaked Hawk (*Melierax monogrammicus*), from Dunkwa, Gold Coast, presented by Dr. H. G. F. Spurrell to H.M. THE KING'S African Collection, on April 2nd.

4 Gigantic Salamanders (*Megalobatrachus maximus*), from Japan, purchased on April 28th.

The Rev. A. MILES MOSS, M.A., F.Z.S., F.E.S., gave a short account of his memoir on the Sphingidæ of Peru, based on studies of Lepidoptera, with special reference to the larvæ, which he had made during a three years' residence at Lima.

This paper will be published in the 'Transactions' in due course.

PAPERS.

37. The Alcyonaria of the Cape of Good Hope and Natal.—
GORGONACEA. By J. STUART THOMSON, Ph.D., F.R.S.E.,
F.L.S., Lecturer and Senior Demonstrator in Zoology,
University of Manchester*.

[Received May 4, 1911: Read May 23, 1911.]

(Plates XLIII.–XLV.† and Text-figure 167.)

The Alcyonaria here reported on were collected during the years 1898 to 1907, off the coasts of Cape Colony and Natal. In a previous paper‡ I dealt with the Alcyonacea, and in the present report I confine myself to the Gorgonacea. This contribution is not, however, to be regarded as an exhaustive one, as, unfortunately, the specimens have come into my hands at different times. Professor Hickson has contributed two papers on South African Alcyonaria to the publication, 'Marine Investigations in South Africa,' and I have to thank him for allowing me to examine his type-specimens and microscopic slides of the spicules of various forms.

I have also to thank Professor J. D. F. Gilechrist, formerly Government Biologist at the Cape of Good Hope, who kindly entrusted these Alcyonarians to me for description.

In this paper, the following 19 species are described or recorded, of which 6 are new:—

Family BRIAREIDÆ.

Suberia capensis, sp. n., p. 871.

Spongioderma verrucosum Möbius, p. 874.

Family MELITODIDÆ.

Melitodes esperi W. & S., p. 874.

Melitodes nodosa W. & S., p. 876.

Melitodes dichotoma Pall., p. 877.

Family ISIDÆ.

Ceratoisis ramosa Hickson, p. 877.

Family MURICEIDÆ.

Muriceides fusca, sp. n., p. 878.

Acanthogorgia armata Verrill, p. 880.

* Communicated by Prof. ARTHUR DENDY, D.Sc., F.R.S., F.Z.S.

† For explanation of the Plates see pp. 892–893.

‡ "The Alcyonaria of the Cape of Good Hope and Natal.—Alcyonacea" (with our plates). Trans. Roy. Society Edinburgh, vol. xlvii. part iii. (No. 19), 1910.



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